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ATTORNEY'S DOCKET NO: S1022.80494US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Tomas NORDSTRÖM, Daniel BENGTTSSON and Olivier ISSON  
Serial No: 09/737,155  
Filed: December 14, 2000  
For: DSL TRANSMISSION SYSTEM WITH FAR-END CROSSTALK  
CANCELLATION

Examiner: Emmanuel Bayard  
Art Unit: 2662

Confirmation No. 8195

Mail Stop Issue Fee - Request  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir/Madam:

Transmitted herewith for filing is/are the following document(s):

- ☒ Request For Acknowledgement of Information Disclosure Statement
- ☒ Copies of: Copy of Trans., IDS with 1449 form 12/14/00 and  
Return Receipt Post Card
- ☒ Return Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned collect at (617)720-3500, Boston, Massachusetts.

No check is enclosed. If it is determined that a fee is necessary, the fee may be charged to the account of the undersigned, Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 9, 2005.

Attorney Docket No.: S1022.80494US00  
**XNDD**

Respectfully submitted,

*Tomas Nordström et al., Applicant*

James H. Morris  
Reg. No.: 34,681  
WOLF, GREENFIELD & SACKS, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210  
Tel. (617) 646.8227



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Alexandria, VA 22313-1450

REQUEST FOR ACKNOWLEDGEMENT OF INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants respectfully request that the Patent and Trademark Office acknowledge receipt of the Information Disclosure Statement (IDS), mailed to the Patent Office on December 14, 2000, by returning the initialed 1449 form which accompanied the IDS.

In support of this request for acknowledgement, Applicants enclose copies of 1) the original transmittal letter which accompanied the submission of the IDS, 2) the IDS with the 1449 form and the return receipt postcard indicating receipt of the IDS in the Patent Office.

Prompt acknowledgment of the IDS is respectfully requested. Should any questions arise concerning the foregoing, please contact the undersigned at the telephone number listed below.

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this document is being placed in the United States mail with first-class postage attached, addressed to Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 9, 2005.

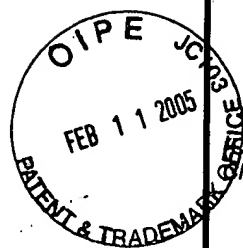
Attorney Docket No.: S1022.80494US00  
**XNDD**

Respectfully submitted,

*Tomas Nordström et al., Applicant*

By:

James H. Morris  
Reg. No.: 34,681  
WOLF, GREENFIELD & SACKS, P.C.  
600 Atlantic Avenue  
Boston, Massachusetts 02210  
Tel. (617) 646.8227



<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No. S1022/8494	
	First Named Inventor or Application Identifier	
	NORDSTROM, Tomas et al.	
	Express Mail Label No.	EL 711 223 317 US
	Date of Deposit	December 14, 2000

<b>APPLICATION ELEMENTS</b> <i>See MPEP chapter 600 concerning utility patent application contents</i>	<b>ADDRESS</b> <b>TO:</b> Box Patent Application Commissioner for Patents Washington, DC 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form <i>(Submit an original, and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Specification [Total pages 14] 9 - pages description 1 - pages abstract 4 - pages claims                      11 - Total claims 3. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) [Total sheets 3] <input type="checkbox"/> Informal <input checked="" type="checkbox"/> Formal    [Total drawings 1-6] 4. <input checked="" type="checkbox"/> Oath or Declaration [Total pages 4] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> [Note Box 5 below] i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 5. <input type="checkbox"/> Incorporation by Reference <i>(usable if Box 4b is checked)</i> The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	6. <input type="checkbox"/> Microfiche Computer Program (Appendix) 7. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies <b>ACCOMPANYING APPLICATION PARTS</b> 8. <input checked="" type="checkbox"/> Assignment Papers/cover sheet & documents(s) 9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <i>(when there is an assignee)</i> <input type="checkbox"/> Power of Attorney 10. <input type="checkbox"/> English Translation of Document <i>(if applicable)</i> 11. <input checked="" type="checkbox"/> Information Disclosure Statement PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations 12. <input type="checkbox"/> Preliminary Amendment 13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 14. <input type="checkbox"/> Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired 15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i>
16. Other: PURSUANT TO 35 U.S.C. §119, APPLICANTS HEREBY CLAIM PRIORITY TO EUROPEAN PATENT APPLICATION 99410174.9, FILED DECEMBER 14, 1999	

17. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

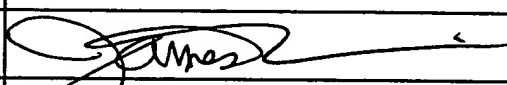
- ☐ Continuation   ☐ Divisional   ☐ Continuation-in-part (CIP) of prior application No.:
- ☐ Cancel in this application original claims of the prior application before calculating the filing fee.
- ☐ Amend the specification by inserting before the first line the sentence:
- This application is a ☐ continuation ☐ divisional of application serial no. , filed , entitled , and now .

**18. CORRESPONDENCE ADDRESS**

*Correspondence address below*

<b>ATTORNEY'S NAME</b>	James H. Morris, Reg. No. 34,681				
<b>NAME</b>	Wolf, Greenfield & Sacks, P.C.				
<b>ADDRESS</b>	600 Atlantic Avenue				
<b>CITY</b>	Boston	<b>STATE</b>	MA	<b>ZIP</b>	02210
<b>COUNTRY</b>	USA	<b>TELEPHONE</b>	(617) 720-3500	<b>FAX</b>	(617) 720-2441

**19. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED**

<b>NAME</b>	James H. Morris, Reg. No. 34,681
<b>SIGNATURE</b>	
<b>DATE</b>	December 14, 2000

Attorney Docket No. S1022/8494

Inventor or Identifier: NORDSTROM, Tomas et al.

Serial No: Not yet assigned

Filed: Herewith

CHECK BOX, if applicable:

For: DSL TRANSMISSION SYSTEM WITH FAR-END  
CROSSTALK CANCELLATION☐ **DUPLICATE**

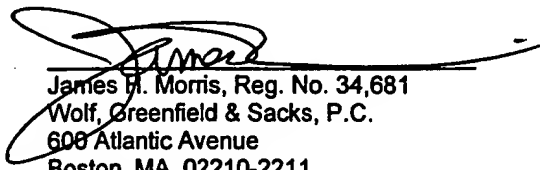
## Fee Calculation Sheet

CLAIMS	FOR	NUMBER FILED	NUMBER EXTRA	RATE	FEE
	TOTAL CLAIMS (37 CFR 1.16(c))	11-20=	0 x	\$18	= \$ 0.00
	INDEPENDENT CLAIMS (37 CFR 1.16(b))	2-3=	0 x	\$80	= \$ 0.00
	MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d)) +			\$260	= \$
				BASIC FEE (37 CFR 1.16(a))	\$ 710.00
	Total of above Calculations =				\$ 710.00
	Reduction by 50% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).				\$
	Assignment Recordation Fee (if any)				\$ 40.00
	Other Fees (if any).				\$
	TOTAL =				\$ 750.00

1. A check in the amount of \$ 750.00 is enclosed.

## General Authorization to Charge Deposit Account and General Request for Extension of Time

2. a. ☒ If the filing of any paper in this application necessitates the payment of a fee under 37 CFR §§ ☒ 1.16 ☒ 1.17 or ☐ 1.18, and the fee due is in an amount different from any enclosed check or if no check is enclosed, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 23/2825.
- b. ☐ The applicant hereby revokes any prior authorization to charge a fee due under 37 CFR §§ ☐ 1.16 ☐ 1.17 or ☐ 1.18.
3. If the filing of any paper in this application necessitates an extension of time under 37 CFR §1.136(a), the applicant hereby requests such extension of time. If the fee due is in an amount different from any enclosed check or if no check is enclosed, the Commissioner is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 23/2825.

  
 James H. Morris, Reg. No. 34,681  
 Wolf, Greenfield & Sacks, P.C.  
 600 Atlantic Avenue  
 Boston, MA 02210-2211  
 (617) 720-3500  
 Attorneys of Record

Docket No. S1022/8494  
 Date: December 14, 2000



Serial No. Hereinwith File No. S1022/8494 By: JHM  
Title: DSL Transmission System With Far-End...  
Application of Tomas Nordstrom et al WGS Date: 12/14/00

The U.S. PTO Mail Room acknowledges receipt of the following on the date stamped hereon:

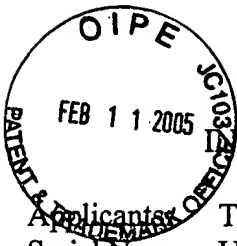
- |  |  |
|--|--|
| <p><input checked="" type="checkbox"/> Mailing by Express Mail (37 CFR 1.10)<br/>Express Mail Label No. <u>32212233705</u><br/><input checked="" type="checkbox"/> Patent Application<br/><input checked="" type="checkbox"/> Non-provisional <input type="checkbox"/> Provisional<br/>Incl. <u>14</u> pages, (<u>9</u> pgs) Specification,<br/>(<u>1</u> pgs) Abstract, (<u>4</u> pgs) Claims (<u>11</u> # claims)<br/><input checked="" type="checkbox"/> Design Patent Application<br/>Declaration(s)<br/><input checked="" type="checkbox"/> Drawings <u>3</u> Sheet(s) (FIGS. <u>1-6</u>)<br/><input checked="" type="checkbox"/> Formal <input type="checkbox"/> Informal<br/><input checked="" type="checkbox"/> Utility Patent Application Transmittal<br/>Fee calculation sheet (x2)<br/>CPA Transmittal<br/><input checked="" type="checkbox"/> Verified Statement claiming small entity status<br/><input checked="" type="checkbox"/> Assignment and Cover Sheet</p> | <p><input checked="" type="checkbox"/> Provisional Application Cover Sheet<br/>Multiple Dependent Claim Fee Sheet<br/>Inf. Discl. Statement, PTO Form 1449<br/><input checked="" type="checkbox"/> References Cited<br/><input checked="" type="checkbox"/> Priority Document(s) # <u>99410174.9</u><br/>Copy of Notice to File Missing Parts<br/>Amendment/Response<br/>Petition for Ext. of Time (x2)<br/>Issue Fee Transmittal<br/>Letter to Official Draftsperson<br/>Notice of Appeal<br/>Brief (x3)<br/><input checked="" type="checkbox"/> Check for \$ <u>750.00</u> Check # <u>440003130</u><br/>Transmittal Letter (x2)<br/>Cert. of Mailing under 37 CFR 1.8(a)</p> |
|--|--|

☐ Other \_\_\_\_\_

DATE MAILED

12/14/00





THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Tomas NORDSTROM, Daniel BENGTSSON, and Olivier ISSON  
Serial No.: Unassigned  
Filing Date: Herewith  
For: DSL TRANSMISSION SYSTEM WITH FAR-END CROSSTALK CANCELLATION

Examiner: Unassigned  
Art Unit: Unassigned

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Commissioner for Patents  
Washington, D.C. 20231

STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed within three months of the filing date of a National Application. No fee or certification is required.

PART II - Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application:

The examiner's attention is hereby drawn to the attached European Search Report.

REMARKS

A copy of each of the above-identified information is enclosed unless otherwise indicated on the attached form PTO-1449 (modified). It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;

2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;

3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant(s) makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicant(s) makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant(s) makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant(s), the Examiner is urged to form his or her own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted,

Tomas NORDSTROM, Daniel BENGTTSSON, and  
Olivier ISSON

By: 

James H. Morris

Registration No. 34,681

WOLF, GREENFIELD & SACKS, P.C.

600 Atlantic Avenue

Boston, MA 02210

Tel. (617)720-3500

Attorneys for the Applicants



FORM PTO-1449(Modified)

ATTY. DOCKET NO. S1022/8494

SERIAL NO. Unassigned

LIST OF PATENTS AND PUBLICATIONS FOR  
 APPLICANT'S INFORMATION DISCLOSURE STATEMENT

APPLICANT Tomas NORDSTROM et al.

FILING DATE Herewith

GROUP Unassigned

## U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
		5,887,032	03/23/99	Cioffi	375	257	09/03/96
		5,271,037	12/14/93	Szechenyi	375	14	10/10/91

## FOREIGN PATENT DOCUMENTS

		Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes No

## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

			European Search Report from European Patent Application 99410174.9, filed December 14, 1999

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
 Include copy of this form with next communication to applicant